

12-4-12

PERIMETER & AREA

PERIMETER

- Around the outside
- Real-life examples:
 - Fencing
 - Border
 - Framework
(of a garden, house, etc.)
 - Ribbons
- To find perimeter, add all sides
- Label w/ units of length

AREA

- Covers the inside
- Real-life examples:
 - Wrapping paper
 - Sod (grass)
 - Carpeting / flooring
 - Painting walls
- To find area, use different formulas
- Label w/ square units of length

Vocabulary:

Height - the measure from the bottom to the top of the line segment that is perpendicular to the base (forms 90° Ls)

Base - the flat bottom (or top)

Formulas & Algebraic Equations

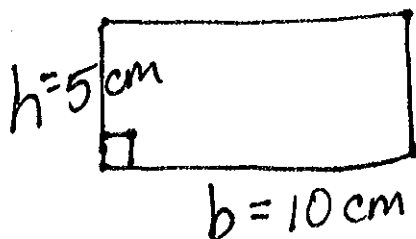
- Both have = signs
- Both use variables
- Plug in the #s we know in the equation
- Solve to find the unknown variable

AREA FORMULAS to Memorize

① A of Parallelograms (including rectangles and squares)

$$A = bh$$

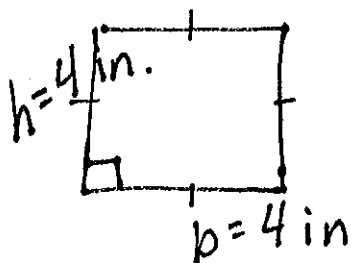
Ex:



$$A = bh$$

$$\begin{array}{c} \downarrow \quad \downarrow \\ A = 10 \times 5 \\ A = 50 \text{ cm}^2 \end{array}$$

Ex:

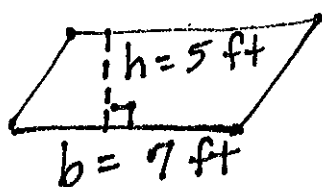


$$A = bh$$

$$A = 4 \times 4$$

$$A = 16 \text{ in}^2$$

Ex:



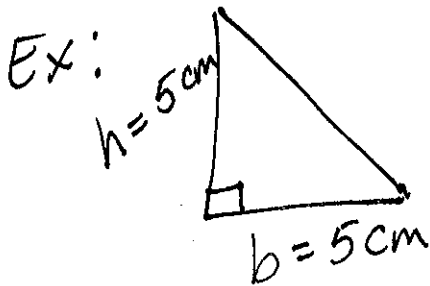
$$A = bh$$

$$A = 7 \times 5$$

$$A = 35 \text{ ft}^2$$

A of Triangles:

$$A = \frac{bh}{2}$$



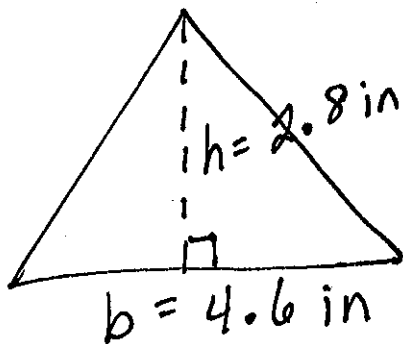
$$A = \frac{bh}{2}$$

$$A = \frac{5 \times 5}{2}$$

$$A = \frac{25}{2}$$

$$A = 12.5 \text{ cm}$$

Ex:



$$A = \frac{bh}{2}$$

$$A = \frac{4.6 \times 2.8}{2}$$

$$A = \frac{12.88}{2}$$

$$A = 6.44 \text{ in}^2$$